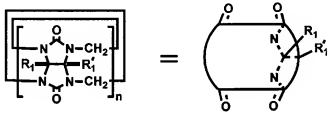
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

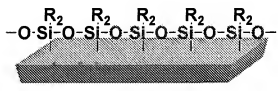
What is claimed is:

1. (Original) A cucurbituril derivative-bonded solid substrate in which a cucurbituril derivative of Formula 1 below is covalently bonded to a modified solid substrate of Formula 2 below:



(1)

wherein n is an integer of 4 to 20, and R1 and R1' are each independently an alkenyloxy group with an unsaturated bond end and a substituted or unsubstituted alkyl moiety of $C_1$-$C_{20}$, a carboxyalkylsulfinyloxy group with a substituted or unsubstituted alkyl moiety of $C_1$-$C_{20}$, a carboxyalkyloxy group with a substituted or unsubstituted alkyl moiety of $C_2$-$C_8$, an aminoalkyloxy group with a substituted or unsubstituted alkyl moiety of $C_2$-$C_8$, or a hydroxyalkyloxy group with a substituted or unsubstituted alkyl moiety of $C_2$-$C_8$, and

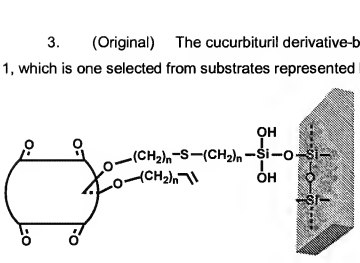


(2)

wherein $R_2$ is an alkyl group of $C_1$-$C_{10}$ with an end functional group selected from thiol, amine, epoxy, isocyan, and isothiocyan.

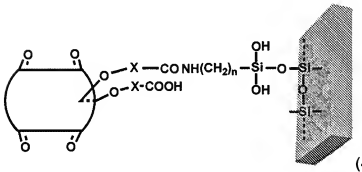
2. (Original) The cucurbituril derivative-bonded solid substrate of claim 1, wherein the solid substrate is a glass, a silicon wafer, an indium tin oxide (ITO) glass, an aluminum oxide substrate, or a titanium dioxide substrate.

3. (Original) The cucurbituril derivative-bonded solid substrate of claim 1, which is one selected from substrates represented by Formulae 3 through 6:



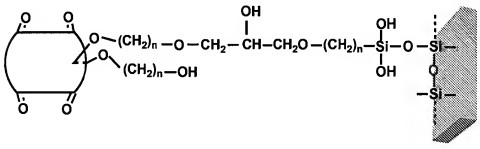
(3)

wherein each n is independently an integer of 1 to 20;



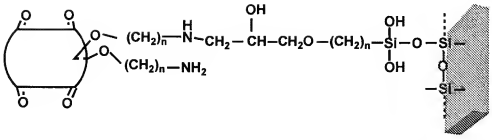
(4)

wherein n is an integer of 1 to 20 and X is a dialkylsulfide group with a substituted or unsubstituted alkyl moiety of $C_1$-$C_{20}$ or a substituted or unsubstituted alkyl group of $C_1$-$C_{20}$;



(5)

wherein n is an integer of 1 to 20; and



(6)

wherein n is an integer of 1 to 20.

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Previously Presented) A protein chip comprising the cucurbituril derivative-bonded solid substrate of claim 1.

8. (Previously Presented) A gene chip comprising the cucurbituril derivative-bonded solid substrate of claim 1.

9. (Previously Presented) A sensor for biomaterial assay comprising the cucurbituril derivative-bonded solid substrate of claim 1.